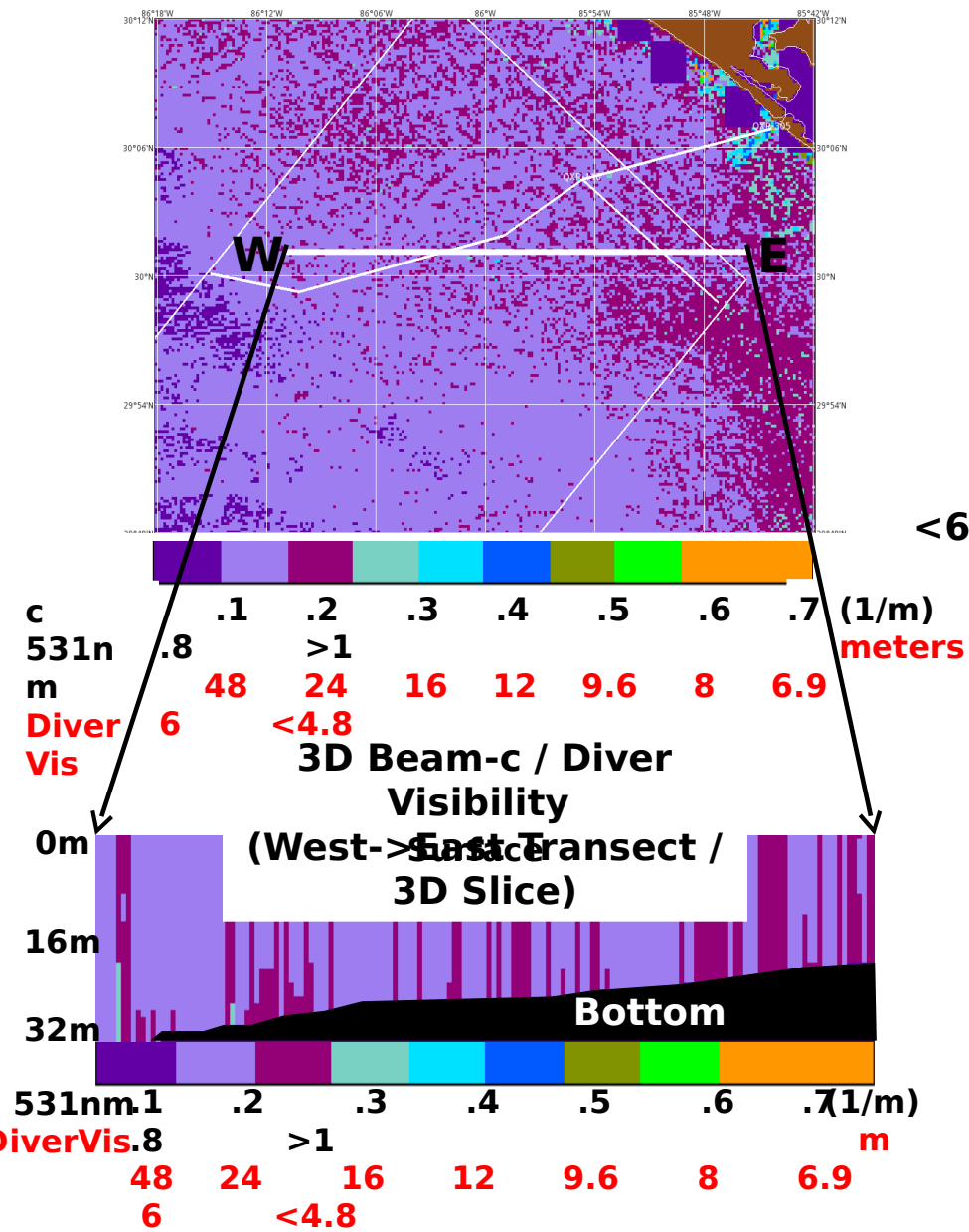


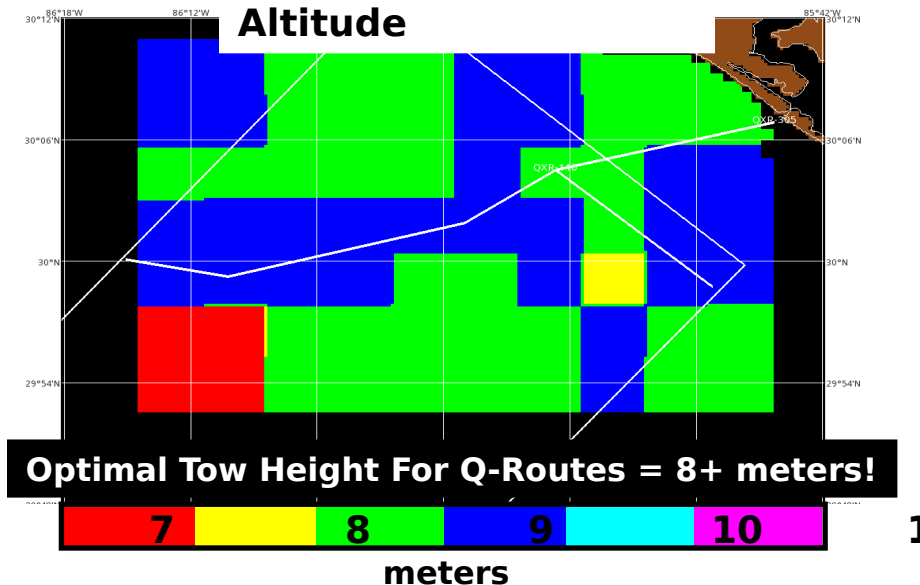


Cast AQS-24 Support for HAWKEX Valid October 05, 2011 1

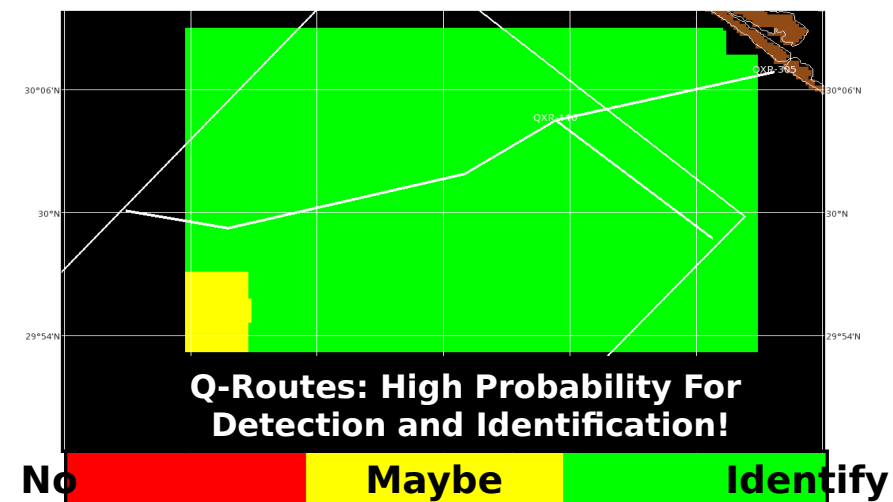
Surface Beam-c / Diver Visibility



Optimal Tow Altitude



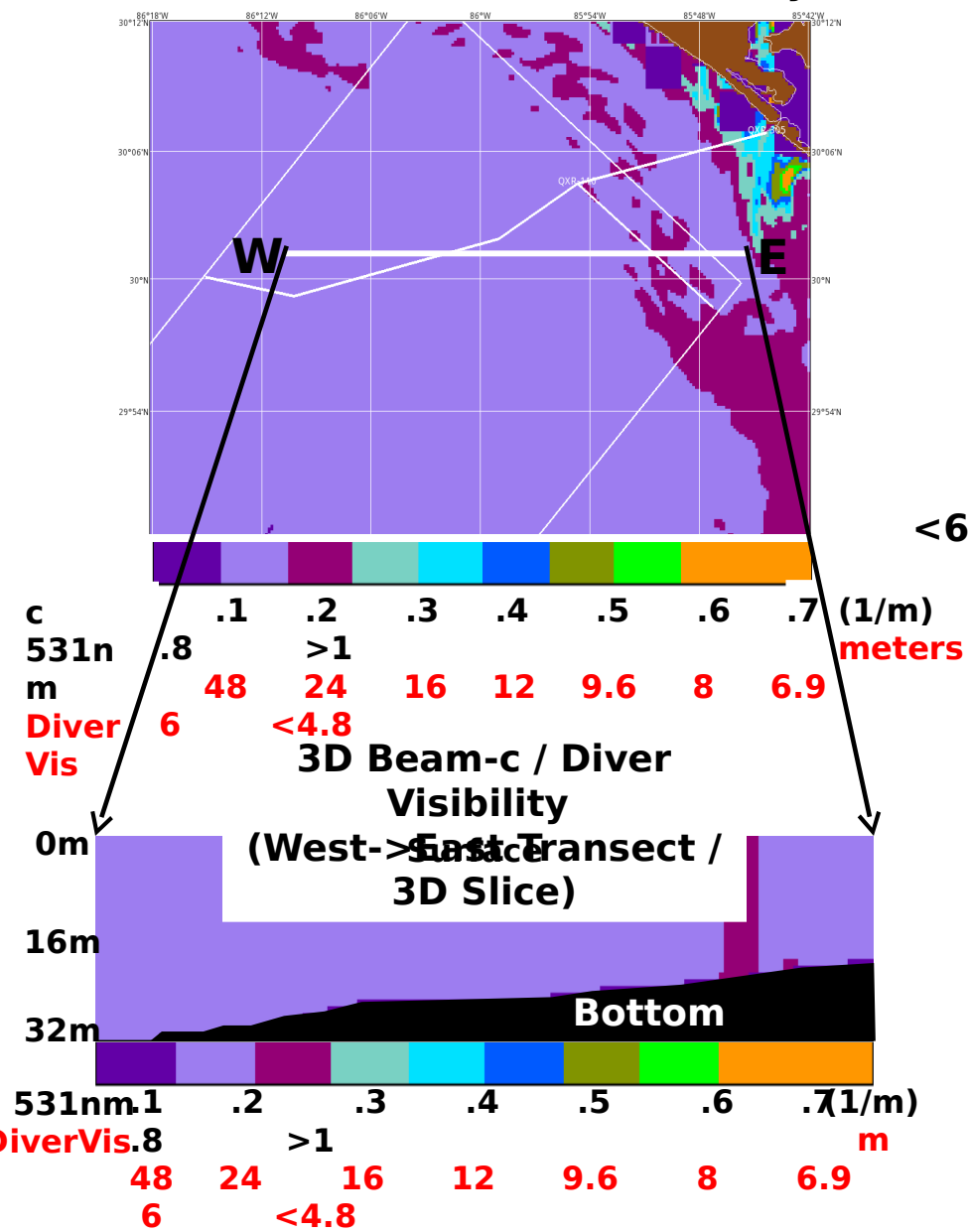
Target Identification @ 7m/23.0ft Tow Altitude



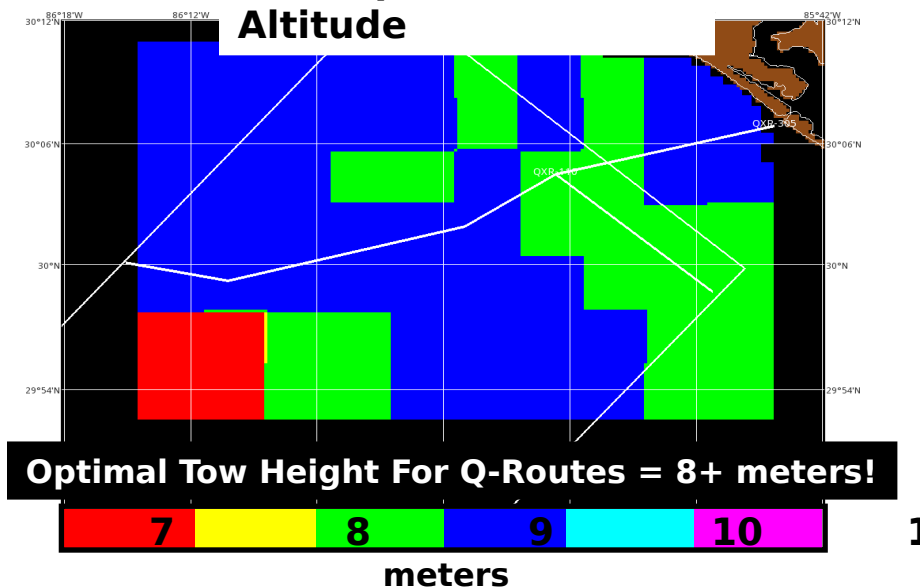


Forecast AQS-24 Support for HAWKEX Valid October 06, 2013

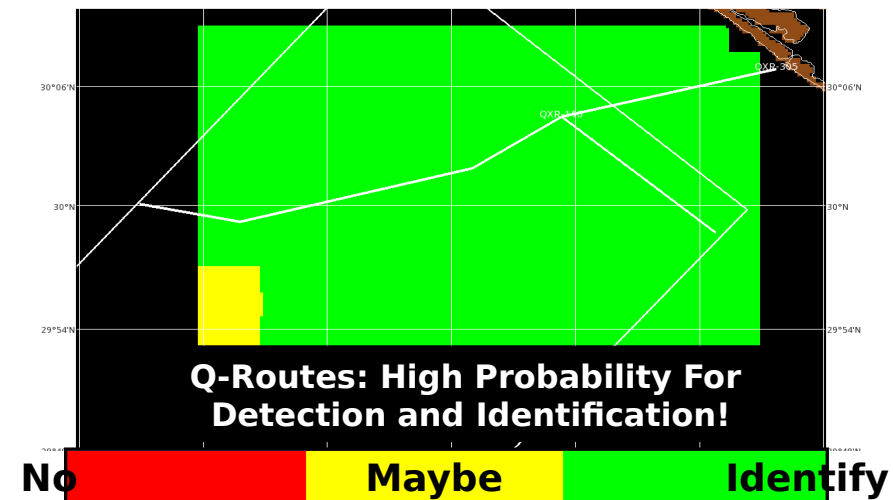
Surface Beam-c / Diver Visibility



Optimal Tow Altitude



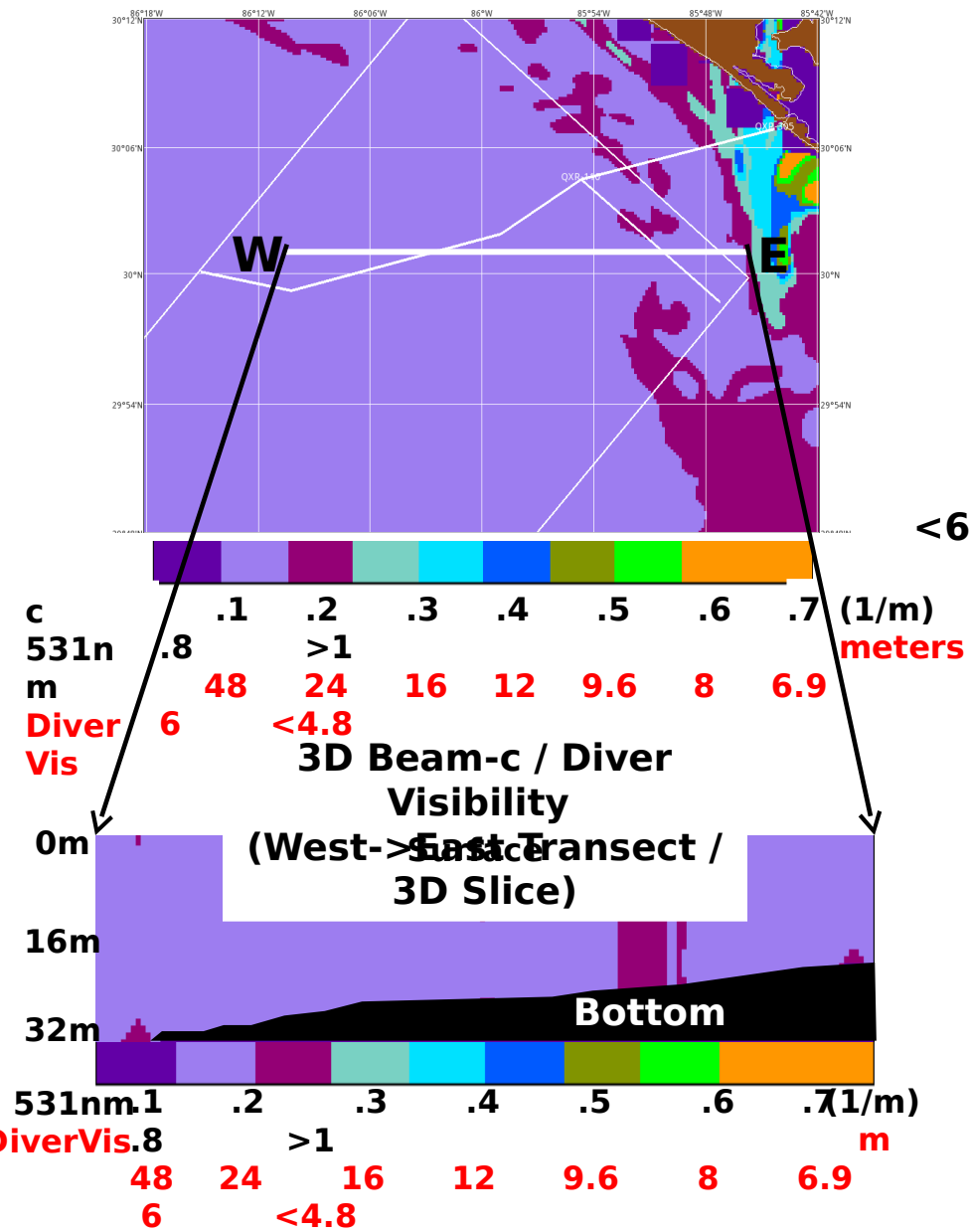
Target Identification @ 7m/23.0ft Tow Altitude



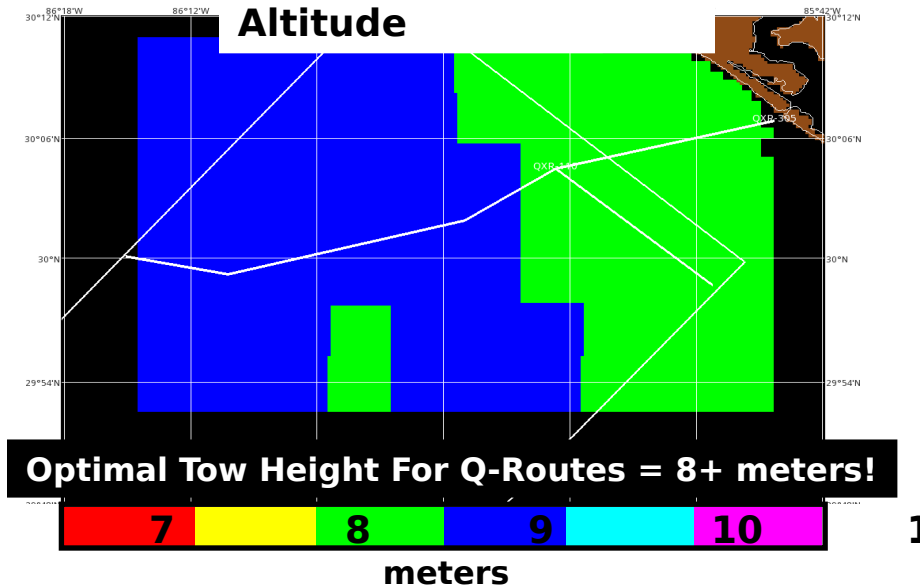


Forecast AQS-24 Support for HAWKEX Valid October 07, 2013

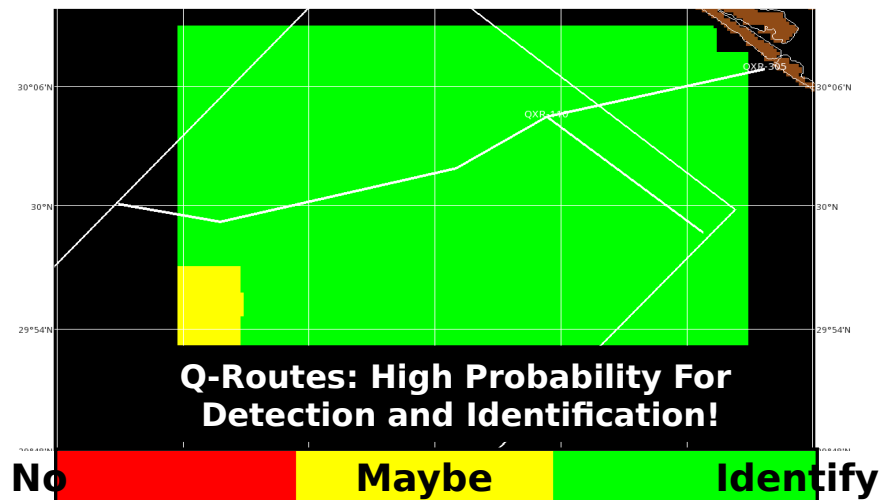
Surface Beam-c / Diver Visibility



Optimal Tow Altitude



Target Identification @ 7m/23.0ft Tow Altitude

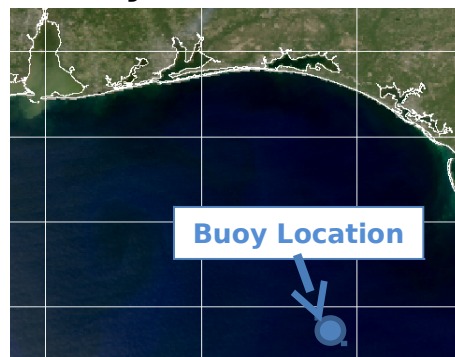




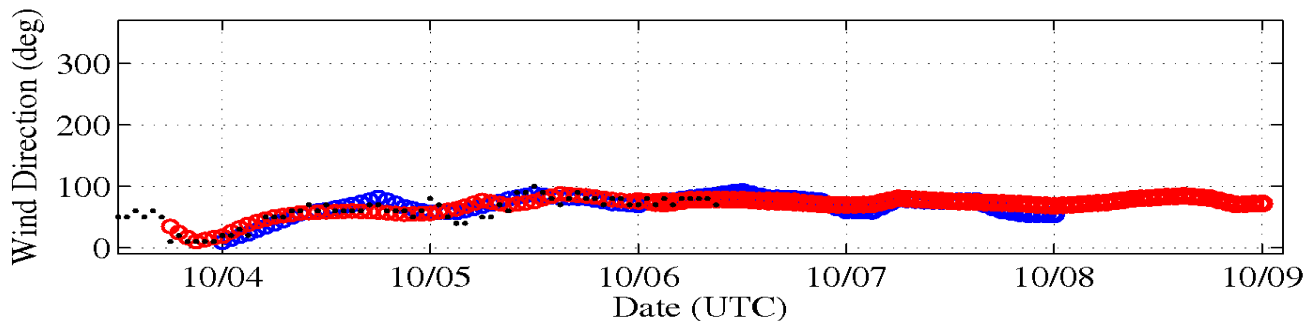
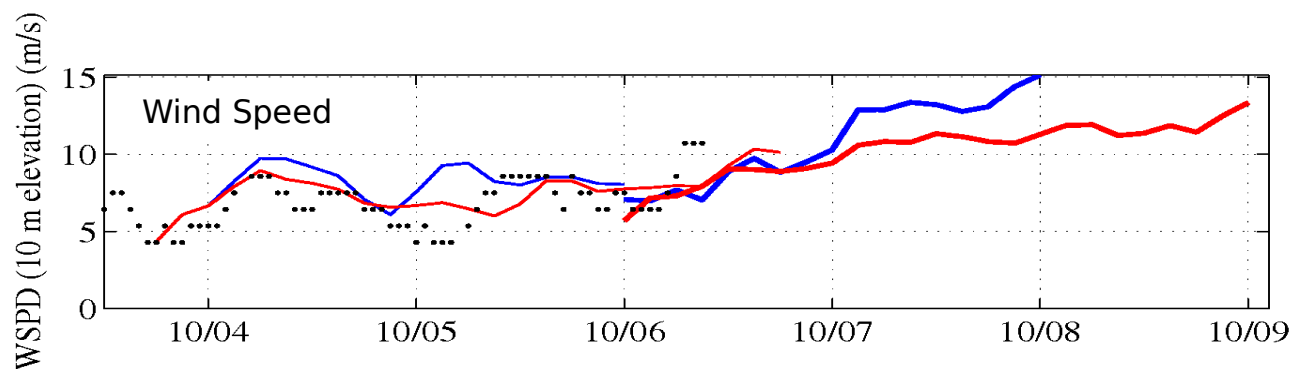
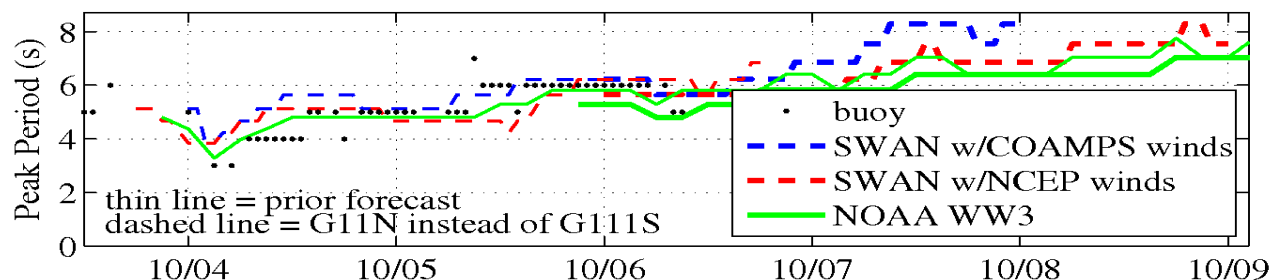
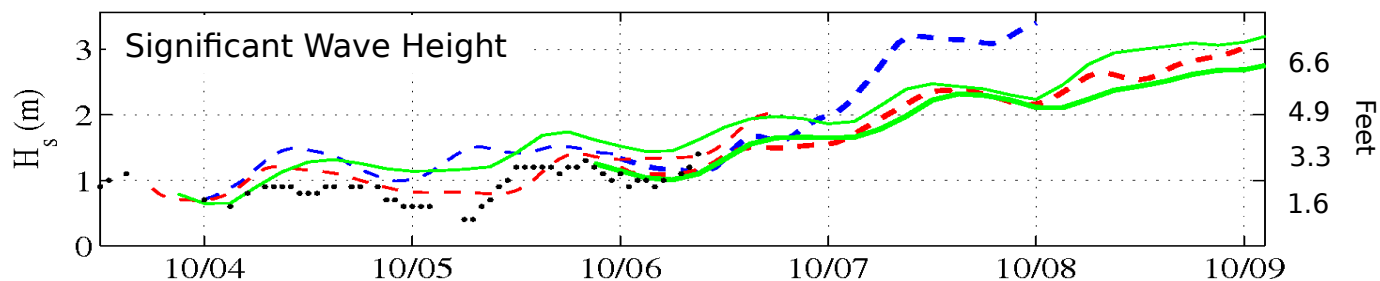
NRL SWAN MODEL Wave & Wind Nowcast/Forecast

Forcing with
COAMPS & **NCEP**
Winds

Buoy (Black Dots)



Model vs. NDBC.42039





SWAN MODEL Significant Wave Heights Nowcast/Forecast

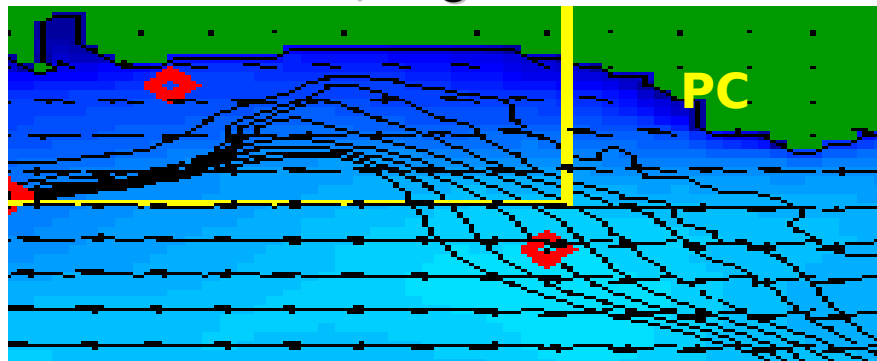
Forcing with
NCEP
Winds

Current Velocities &
Direction (->)

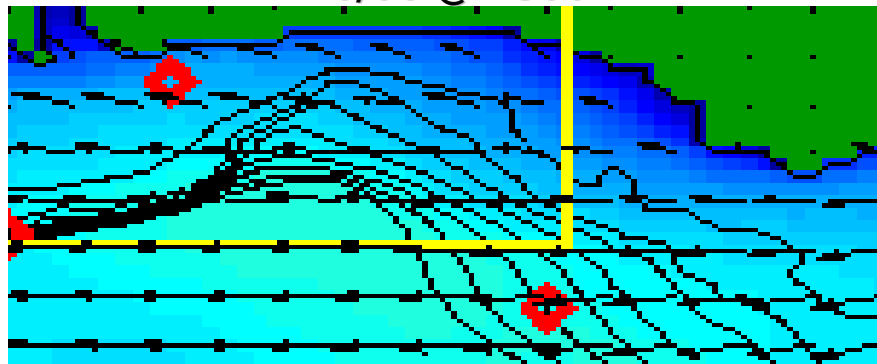


0 1 2 3 4 m
0 3.3 6.6 9.8 13.1 ft

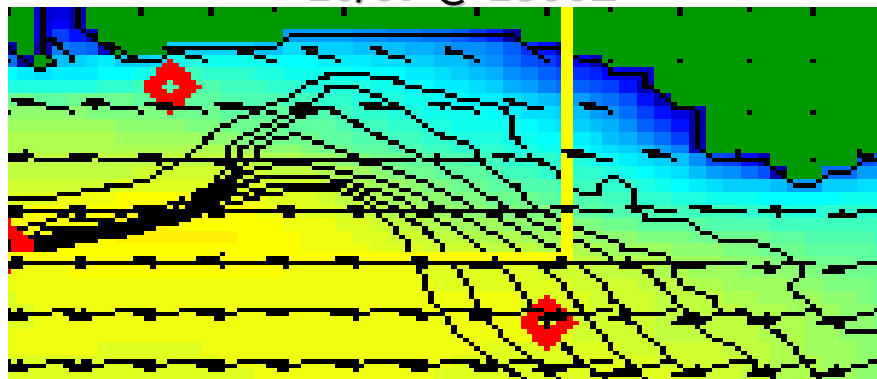
10/05 @ 1800Z



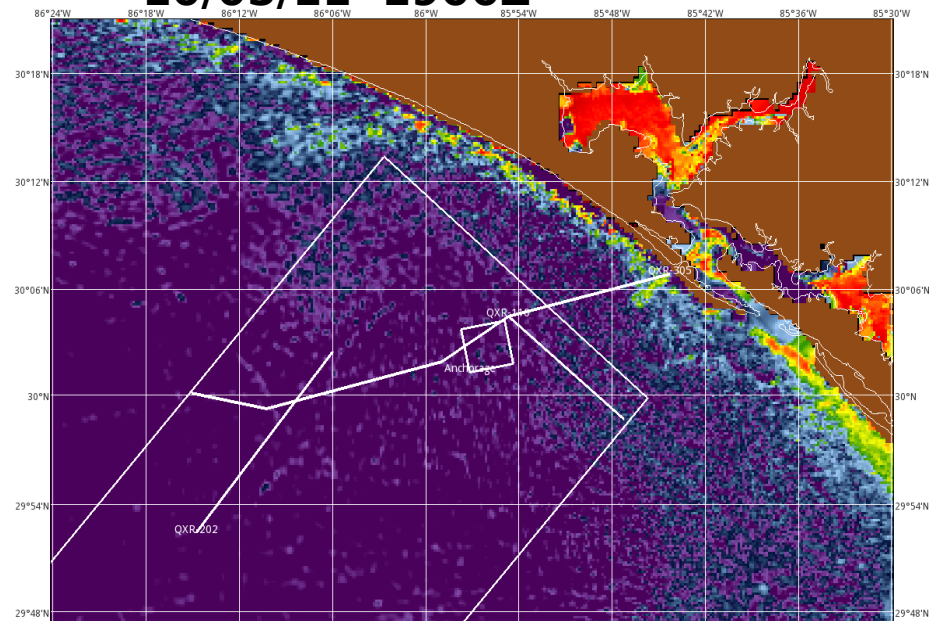
10/06 @ 1800Z



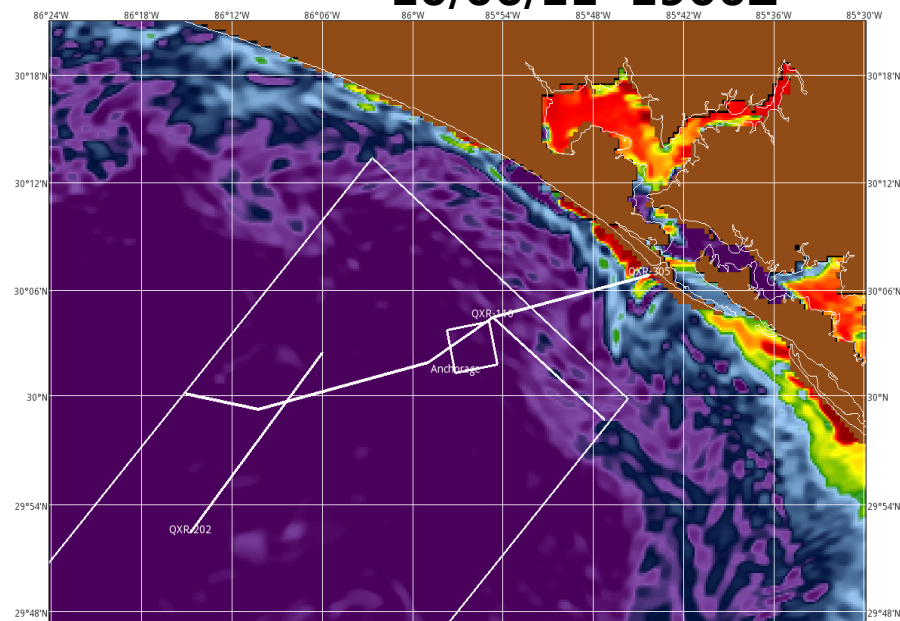
10/07 @ 1800Z



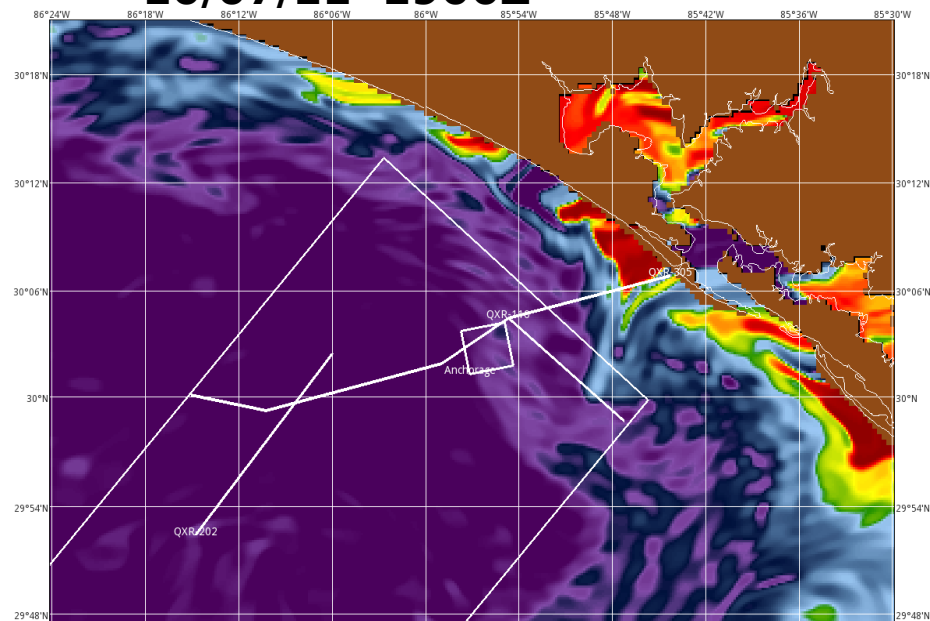
10/05/11 1900Z



10/06/11 1900Z



10/07/11 1900Z



**Laser Penetration Depth
@ 3.4 Attenuation Lengths
Green Laser (531nm)**



0

10

20

30

40

50

meters

contact Info:

Herwin Ladner
Naval Research Laboratory
Gennis Space Center, MS
Email: ladner@nrlssc.navy.mil
Office: 228-688-5754
Cell: 228-380-1738

Feedback Very Important!

Positive or Negative
How are products being used?
Changes/Needs/Suggestions